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# MINERAL PRODUCTION IN ILLINOIS IN 1966

W. L. Busch

ILLINOIS STATE GEOLOGICAL SURVEY
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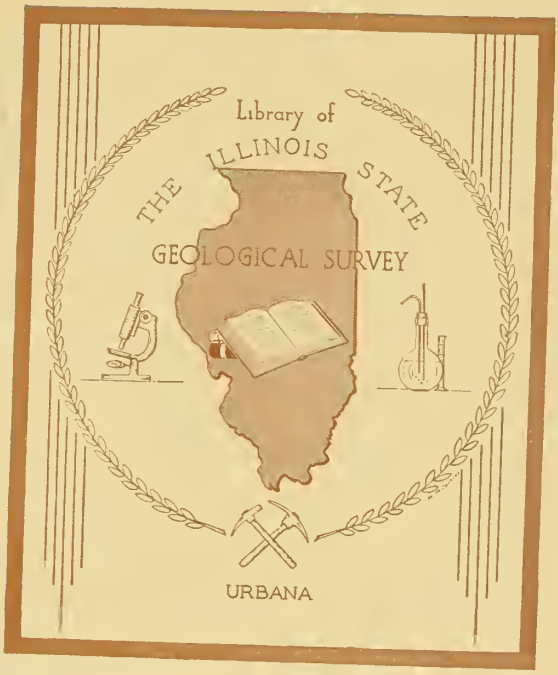


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# MINERAL PRODUCTION IN ILLINOIS IN 1966

W. L. Busch

ABSTRACT

The value of minerals produced in Illinois in 1966 amounted to 644 million dollars. This was the highest annual value ever recorded for mineral production in the state. Illinois minerals showing increases in value over 1965 totals were coal, common sand and gravel, silica sand, and fluorspar. Clay products also showed an increase over the 1965 total. Other minerals produced in Illinois generally recorded slight declines in value for 1966 as compared to 1965. The quantity and value of the various minerals produced in 1966 are summarized in the tables and maps of this report.

## SUMMARY OF 1966 MINERAL PRODUCTION

The value of minerals reported produced in Illinois for 1966 totaled 644 million dollars. This was 25.5 million dollars more than the 618.5 million dollar value of minerals reported produced in 1965. The value of coal produced in 1966, amounting to about 243.4 million dollars, was almost 25.6 million dollars greater than the 217.8 million dollar value of coal produced in 1965. These figures indicate that the 1966 increase in the value of coal over the 1965 value equalled the entire increase in the state's total mineral value for 1966. The value of coal was 37.8 percent of the value of all minerals produced in the state for 1966.

The value of crude oil produced during 1966, amounting to about 185.9 million dollars, was only slightly less than the 1965 total value of 186.7 million dollars. Although fewer barrels of oil were produced in 1966, as compared to 1965, an increase in the price per barrel in 1966 helped to minimize the decline in total value. The total value of oil produced in 1966, with a small amount of natural gas, furnished about 29.0 percent of the 1966 state total mineral value.

Stone products produced in Illinois during 1966 include crushed stone, cement, and lime. The combined total value of these commodities places them as the second most important group of materials produced in Illinois after the fuels, coal and oil. Although the 1966 value of each of the three stone products was slightly less than the corresponding values for 1965, as a group they contributed 16.0 percent of the state's total mineral value in 1966.

Illinois clay products had a reported value of 54.9 million dollars in 1966. This was about 2.4 million dollars more than the 52.5 million dollars worth of clay products reported for 1965. The 1966 value of clay products was 8.5 percent of the state's over-all mineral products value. Various clay products are produced in Illinois, which include face brick and common brick, structural tile, drain and sewer tile, refractories, and pottery and whiteware.

Common sand produced in 1966 showed some increase in tonnage and in total value over 1965, although the state average value declined one cent per ton to $0.84 in 1966 from $0.85 in 1965. Illinois gravel production during 1966 also increased in amount and in value compared to 1965. The state average value per ton for gravel in 1966 remained the same as in 1965—$0.91 per ton. The production of silica sand in Illinois in 1966 registered gains in tonnage, total value, and average value per ton over 1965 totals. The total value of silica sand produced in 1966, amounting to 13.1 million dollars, was about 1.1 million dollars more than the 1965 total value for this commodity. In 1966, only very small amounts of natural bonded molding sand were produced. The total value of all sands and gravel produced in 1966 furnished about 6.7 percent of the total Illinois mineral product value.

The combined values of fluorspar, lead, and zinc produced from Illinois mines in 1966 was about 13.1 million dollars. This was about 1 million dollars less than the 1965 value of 14.1 million dollars. In 1966, the total value of fluorspar was slightly greater than in 1965. However, the total values of lead and zinc in 1966 declined from the 1965 values of these metals. As a group, the total value of fluorspar, lead, and zinc in 1966 was about 2 percent of the state's entire mineral value.

The figures given in table 1 of this report summarize in concise form the amounts, total values, and average values per unit for the various minerals produced in Illinois during the years 1965 and 1966.

## ILLINOIS MINERAL PRODUCTION IN REVIEW

Minerals produced in Illinois during 1966 were valued at 644 million dollars. This was the highest annual value ever recorded for mineral production in the state. The previous record high value of 631 million dollars was established in 1962. Table 2, which gives the total annual value of minerals produced in Illinois for the years 1946 through 1966, shows that during this period of 21 years, the trend in mineral production has been toward greater total annual values.

The percentage of total value contributed by various segments of the Illinois mineral industry from 1955 through 1966 is indicated in table 3. The figures show that the total annual value of coal produced in Illinois has contributed an increasing percentage of the state total annual value of all minerals produced during the 12-year period from 1955 through 1966. The total annual value of oil produced in Illinois, as a percentage of all minerals produced, shows a decline from almost 43 percent in 1955 to 29 percent in 1966. Stone products, which includes crushed stone, cement, and lime, as a group show a small but steady increase in percent of the state's total annual mineral value from 1955 through 1966. The value of clay

products, in percentage, has recorded a gradually diminishing annual share of the state's over-all mineral values. The production of sand and gravel in Illinois, which includes common sand and gravel, silica sand, and natural bonded sand, shows that the combined value of these products has established a slight upward trend during recent years, as a part of the growing value of the total annual Illinois mineral product. The remaining group of minerals produced in Illinois, according to table 3, includes fluorspar, zinc, and lead. The combined annual values of these commodities, although small—2 percent of the state's over-all mineral value—are important. Among all states, Illinois is the first-ranking fluorspar producer.

The average prices for Illinois mineral products from 1961 through 1966 are indicated in table 4, which shows the major mineral products and the average value per unit of measure, ton, or barrel. The average annual value per unit for several commodities shows that the price might vary from year to year but still remain within a fairly restricted high and low range. Some prices trend upward or downward during this six-year period; others seem somewhat volatile. However, in general, prices for these materials in 1965 and 1966 were less per unit than in 1961 and 1962.

## COAL

Illinois coal production in 1966 amounted to more than 63.2 million tons and was valued at about 243.4 million dollars. This output exceeded 1965 production by almost 5.0 million tons and totaled 25.6 million dollars more in value. The substantial increase in total value for the 1966 production over 1965 is based on increased production and an increase in value of $0.11 per ton. In 1966, Illinois was the fourth-ranking coal-producing state in the nation, surpassed only by West Virginia, Kentucky, and Pennsylvania. Ohio was fifth in the nation with a production of 43.3 million tons in 1966, and Virginia was sixth with 35.6 million tons. The 63.2 million tons of coal produced in Illinois during 1966 represented about 11.8 percent of the nation's entire bituminous coal and lignite production for that year.

The Illinois coal production record for 1966 is shown in tables 5 and 6. Table 5 summarizes the 1966 production in terms of tons of coal produced, type of mine (strip or underground), number of mines, and the approximate value of the product for each producing county. Of the 26 counties reporting coal production for 1966, 12 produced more than one million tons each for a combined total of 92.9 percent of the state's output. Recovery of coal by stripping methods occured in 18 Illinois counties in 1966 and accounted for about 57.1 percent of total coal produced in the state during the year.

Coal production by counties since 1882, when mining records were begun, is shown in table 6. During this period of 85 years, almost 4 billion tons of coal have been recovered from Illinois mines. Of the 71 counties that have produced some coal since 1882, 12 have produced more than 100 million tons of coal each and as a group have accounted for 78.1 percent of the state's entire output. Table 6 also shows the total number of years that each county has produced coal since 1882 and the most recent year it was productive.

The value of coal in 1966 was the largest single amount among the values of all Illinois minerals and supplied about 37.8 percent of the state's total mineral value. The 26 counties of Illinois that produced coal in 1966 are indicated by the county map in figure 1, with the intensity of mining activity illustrated by the degree of shading.

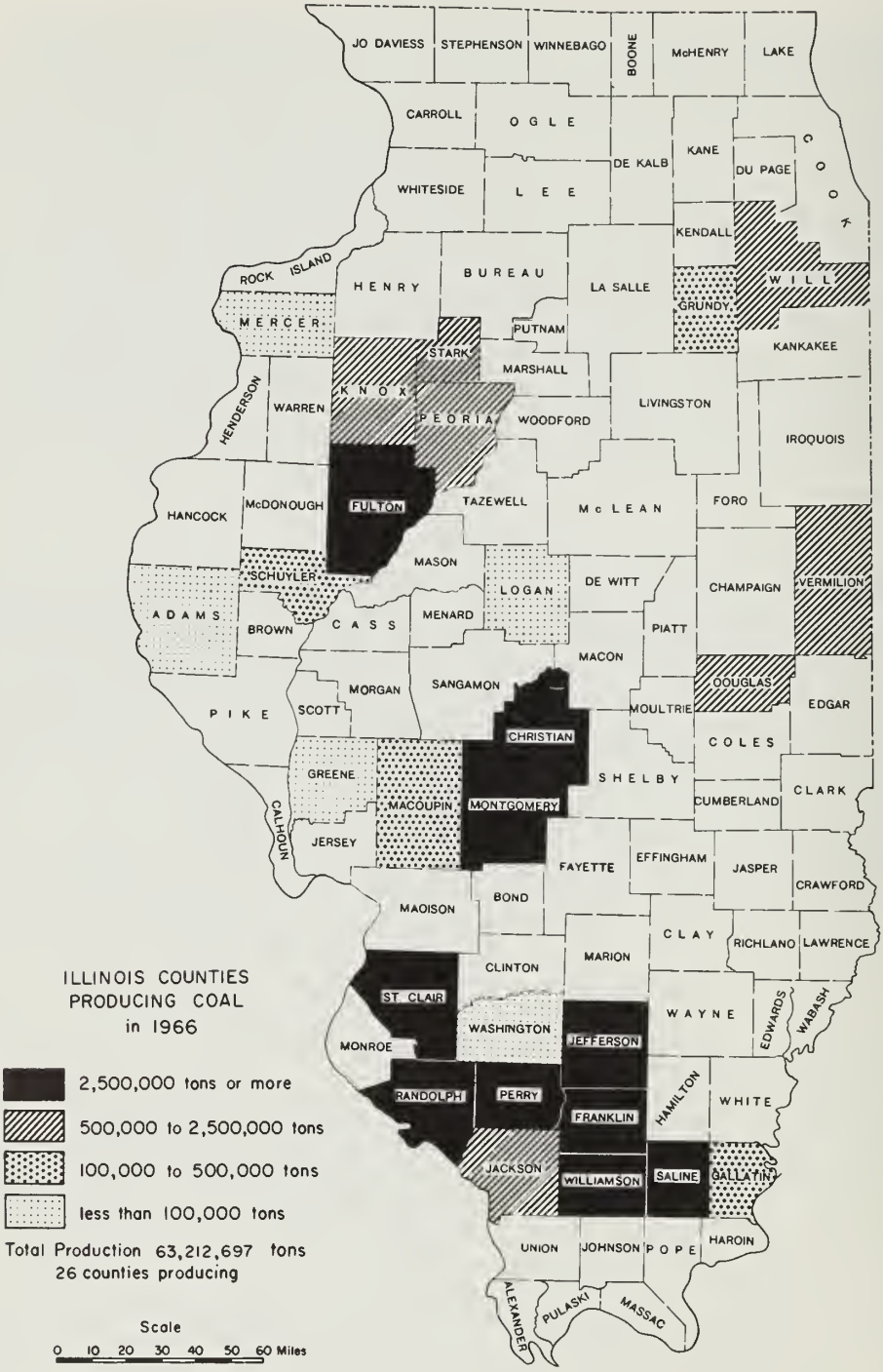


Figure 1 - Illinois coal production by counties in 1966.

## PETROLEUM

Production of crude oil from Illinois wells in 1966 was estimated at about 62.0 million barrels, a decline of 1.7 million barrels from the 63.7 million barrels produced in 1965. The value of crude oil produced during 1966 in Illinois amounted to about 185.9 million dollars. Based on the 1966 estimated average price of $3.00 per barrel value for Illinois oil, which was an increase of $0.07 per barrel over the 1965 average value of $2.93 per barrel, the total value of this commodity in 1966 was only about $700,000 less than the 1965 total value of 186.6 million dollars.

The estimated amount and value of oil produced by county in 1966 is given in table 7 along with the percentage of oil that each producing county supplied to the 1966 total Illinois production. The total estimated oil production from 1888 through 1966 is indicated by figures for each county in table 7. Figure 2 shows the 42 counties in Illinois that produced oil in 1966 and indicates the major oil-producing areas. Of the 42 counties producing oil in 1966, 14 counties produced more than one million barrels each for a total of 88.3 percent of the state's entire oil production. The 1966 total value of oil, amounting to about 185.9 million dollars, was the second largest single item among the values of all minerals produced in Illinois and contributed about 29.0 percent to the state's total mineral value.

## STONE

A production of 42.6 million tons of crushed and broken stone was reported by commercial quarry operators for 1966. This prepared stone was valued at 57.4 million dollars for an average of $1.35 per ton. The tonnage produced in 1966 was only about 700,000 tons less than the 43.3 million tons produced in 1965. As the average value per ton of stone produced in 1966 was one cent more than the average value of $1.34 per ton reported for 1965, the total value produced in 1966 was only about $393,000 less than the 57.8 million dollar total reported for 1965.

During 1966, as in 1965, seven Illinois counties—Cook, St. Clair, Will, Kankakee, Livingston, Rock Island, and Randolph—produced more than one million tons of crushed and broken stone each. The 1966 stone output of these seven counties amounted to about 24.9 million tons, or 58.5 percent of the state's total stone production. In addition to the counties listed above, there were eleven counties with stone production ranging from one-half million to one million tons each for a combined total production of 7.9 million tons, which was about 18.7 percent of all stone produced in Illinois during 1966.

A detailed account of stone production in Illinois according to region (fig. 3) and according to three major categories of use—road and building, agriculture, and all other uses—is given in table 8. Table 8 also lists every county reporting stone production and the average value at the quarry for all uses of stone in all regions for 1966. The value of crushed stone produced in 1966, plus the values of the stone products, cement and lime, contributed about 16.0 percent of the total Illinois mineral value for that year.

## SAND AND GRAVEL

Commercial sand and gravel producers reported a total production of about 33.4 million tons of common sand and gravel for 1966. The combined total value

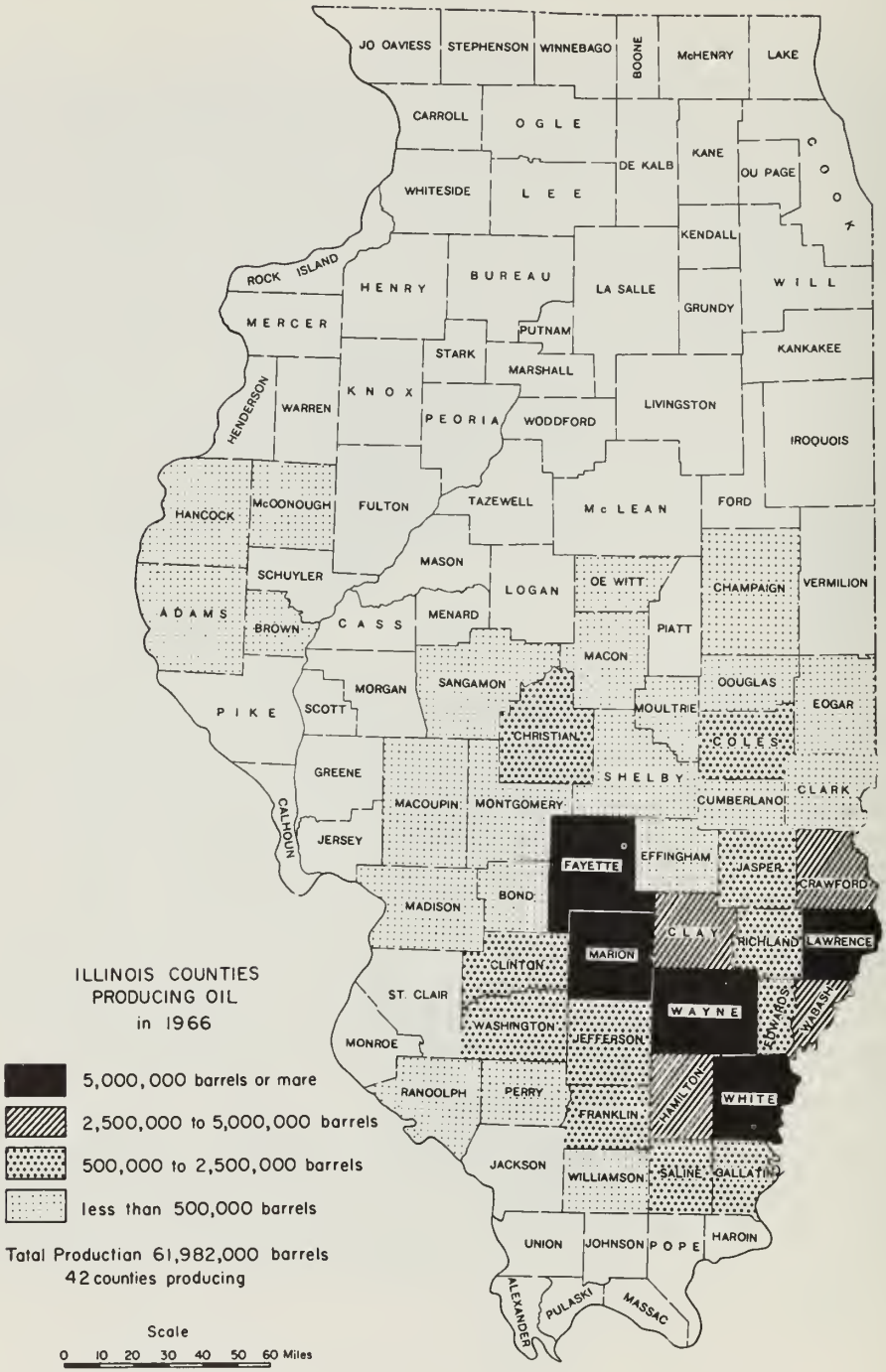


Figure 2 - Illinois oil production by counties in 1966.

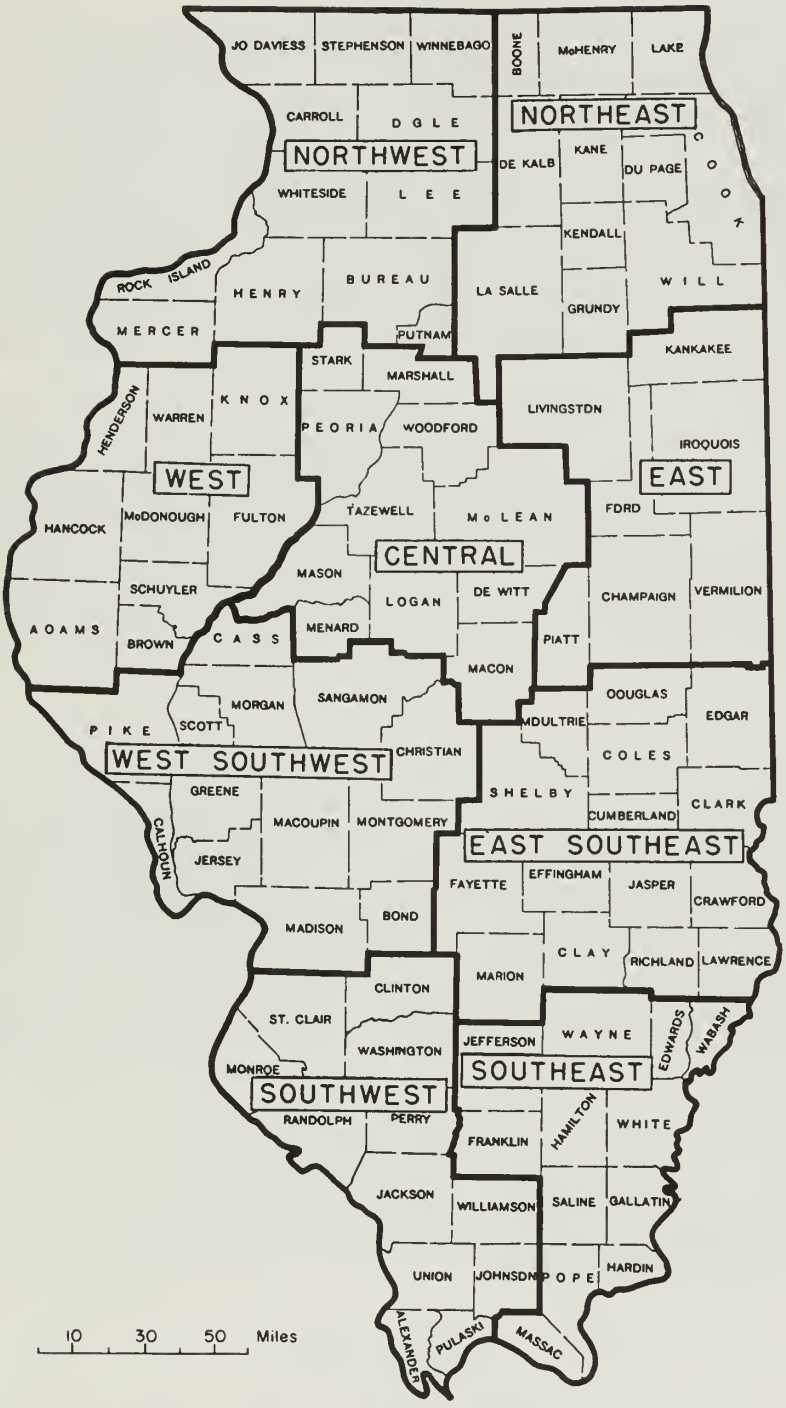


Figure 3 - County outline map of Illinois showing area division.

of these commodities amounted to about 29.4 million dollars. In 1965, these materials totaled 31.6 million tons and were valued at 27.8 million dollars. The average value per ton of common sand in 1966 was $0.84—in 1965 the value was $0.85 per ton. Gravel was valued at $0.91 per ton in 1965 and 1966.

Common sand and gravel are used extensively in Illinois for various building and construction purposes. Counties in the northeastern part of the state produced the largest amounts of sand and gravel in 1966. As a group, 11 counties in this region produced 19.1 million tons of this material, which was valued at about 15.9 million dollars (tables 9 and 10). The Central Region of Illinois, in 1966, produced almost 5 million tons of sand and gravel, with a total value of 5.2 million dollars. The third most important region in Illinois producing these commodities was the Northwest Region, with an output of 3.9 million tons valued at about 3.4 million dollars (fig. 3).

McHenry County was first among all counties in Illinois in the production of both sand and gravel in 1966. With the exception of some counties that border on the Mississippi, Ohio, and Wabash Rivers, the southern portion of Illinois has comparatively few sand and gravel producing areas. Table 16 of this report lists the numerical position that each Illinois county held, among all counties of the state for 1966, in the production of crushed stone, common sand and gravel, and other mineral commodities.

A summary of Illinois stone, sand, and gravel produced by each of the nine regions in the state (fig. 3), during the years 1958 through 1966, and state totals regarding the production of the three materials is recorded in table 11.

## SPECIAL SANDS

Special sands in Illinois include two sands that have special and important uses in industry. One of these is natural bonded molding sand, which has been produced in small quantities in Illinois for many years. The natural composition of this sand is such that it can be used in molds for the casting of metals without the addition of other substances. In 1966, small amounts of natural bonded molding sand were produced in Fayette, Henry, and Rock Island Counties.

The other special sand of Illinois is silica sand. This mineral, which is produced primarily in LaSalle County and in smaller amounts in Ogle County, has many important industrial uses. However, table 12 indicates that in 1966 the most important use for Illinois silica sand, in tons of material used, was for the manufacture of glass. The second most important use for this commodity, in terms of tons used, was for molding sand purposes. During 1966, Illinois silica sand operators produced a total of about 3.8 million tons of this material, which was valued at about 13.1 million dollars. The 1965 production amounted to 3.6 million tons, valued at about 12 million dollars. The total value of all sands and gravel produced in Illinois during 1966 amounted to 6.7 percent of the value of all minerals produced in the state.

## CLAY PRODUCTS

The value of clay products reported produced in Illinois during 1966 totaled 54.9 million dollars. In 1965, the reported state value of clay products was 52.5 million dollars. Illinois clay products include such items as face brick and common

brick, sewer pipe and drain tile, building tile, vitreous plumbing fixtures, electrical porcelains, pottery and whiteware, lightweight aggregates, and clay and silica refractories. A summary of the production of clay products for the years 1965 and 1966 is given in table 13. Forty-five clay products plants, located in 26 counties throughout Illinois, reported production for 1966 and furnished about 8.5 percent of the state's over-all mineral products value.

LaSalle County was the number one county in the state in the production of various clay products during 1966. Cook County was second, Crawford County was third, and McDonough County was fourth. Other counties ranking high in the production of clay products for 1966 were Knox County in fifth place, Will County in sixth, and Kane County in seventh. These seven Illinois counties produced about 72 percent of the total value of all Illinois clay products produced in 1966.

## CEMENT

The manufacture of cement in Illinois is an important mineral industry. In 1966, Illinois cement plants produced and shipped 9.8 million barrels of all types of cement, which were valued at about 30.5 million dollars. The state's four active cement plants in 1966 are located in three counties: two in LaSalle County at Oglesby and at LaSalle, one in Lee County at Dixon, and one in Massac County at Joppa.

## FLUORSPAR

Production figures for 1966 indicate that Illinois fluorspar producers shipped a total of 176,175 tons of this mineral, which was valued at 8 million dollars. Figures in table 14 show that Illinois fluorspar shipments in 1966 amounted to about 69.6 percent of all fluorspar produced and shipped in the United States. Of the 1.1 million tons of domestic and foreign fluorspar consumed in the United States during 1966, Illinois fluorspar shipments supplied about 16.5 percent of this total.

Illinois, the nation's foremost fluorspar producing state, supplies this important material for use in the iron and steel, aluminum, chemical, glass, and ceramics industries. Fluorspar was mined principally in Hardin County, with small amounts produced in Pope County. Both counties are located in the extreme southern part of Illinois.

## METALS

Zinc and lead, the two metals produced in Illinois, are recovered from primary metal mines in Jo Daviess County, located in the northwestern part of the state, and as by-products of fluorspar mining in Hardin and Pope Counties, in the southern part of the state.

Production figures in table 15 show that during 1966, Illinois mines produced 15,192 tons of zinc, valued at 4.4 million dollars, and 2,285 tons of lead, valued at $690,756.

The combined values of the Illinois fluorspar shipments and the values of zinc and lead produced in Illinois contributed about 2 percent of the state's 1966 total mineral products value of 644 million dollars.

TABLE 1 - SUMMARY OF ILLINOIS MINERAL PRODUCTION, 1965-1966[a]

| Material | Unit | 1965[b] Quantity | 1965[b] Value at plants Total | 1965[b] Value at plants Average | 1966[b] Quantity | 1966[b] Value at plants Total | 1966[b] Value at plants Average |
|---|---|---|---|---|---|---|---|
| Coal - bituminous | tons | 58,232,480 | $217,789,475 | $ 3.74 | 63,212,697 | $243,368,883 | $ 3.85 |
| Crude oil | bbls. | 63,708,000 | 186,664,440 | 2.93 | 61,982,000 | 185,946,000 | 3.00 |
| Limestone and dolomite | tons | 43,293,426 | 57,805,266 | 1.34 | 42,579,368 | 57,412,100 | 1.35 |
| Cement - Portland 376 lb. | bbls. | 9,358,412 | 30,621,967 | 3.27 | 9,203,150 | 28,617,379 | 3.11 |
| Cement - Masonry 280 lb. | bbls. | 615,276 | 1,906,897 | 3.10 | 614,321 | 1,868,016 | 3.04 |
| Clay products | — | — | 52,459,500 | — | — | 54,901,990 | — |
| Sand | tons | 13,424,000 | 11,356,000 | 0.85 | 14,371,000 | 12,139,000 | 0.84 |
| Gravel | tons | 18,194,000 | 16,508,000 | 0.91 | 19,027,000 | 17,296,000 | 0.91 |
| Silica sand | tons | 3,631,000 | 11,991,000 | 3.30 | 3,853,000 | 13,145,000 | 3.41 |
| Fluorspar | tons | 159,140 | 7,861,165 | 49.40 | 176,175 | 8,001,803 | 45.42 |
| Zinc | tons | 18,314 | 5,347,688 | 292.00 | 15,192 | 4,405,680 | 290.00 |
| Lead | tons | 3,005 | 937,560 | 312.00 | 2,285 | 690,756 | 302.00 |
| Other materials[c] | — | — | 17,251,042 | — | — | 16,207,393 | — |
| Total value | | | $618,500,000 | | | $644,000,000 | |

[a]Table based on figures from the U.S. Bureau of Mines, the Illinois State Department of Mines and Minerals, and the Illinois State Geological Survey.
[b]Subject to revision.
[c]Includes natural gas, lime, tripoli, natural bonded molding sand, and sandstone.

TABLE 2 - VALUE OF ILLINOIS MINERAL PRODUCTION, 1946-1966
(thousands of dollars)

| Year | Mineral production | Year | Mineral production | Year | Mineral production |
|---|---|---|---|---|---|
| 1946 | $379,673 | 1953 | $501,926 | 1960 | $615,800 |
| 1947 | 458,737 | 1954 | 519,242 | 1961 | 604,000 |
| 1948 | 567,624 | 1955 | 570,653 | 1962 | 631,000 |
| 1949 | 487,808 | 1956 | 613,364 | 1963 | 615,000 |
| 1950 | 539,236 | 1957 | 612,755 | 1964 | 618,000 |
| 1951 | 542,031 | 1958 | 611,625 | 1965 | 618,500 |
| 1952 | 500,820 | 1959 | 606,300 | 1966 | 644,000 |

TABLE 3 - PERCENTAGE OF TOTAL VALUE CONTRIBUTED BY VARIOUS SEGMENTS OF THE ILLINOIS MINERAL INDUSTRY, 1955-1966

| Year | Coal | Petroleum products | Stone products | Clay products | Sand and gravel | Fluorspar and metals | Total percent |
|---|---|---|---|---|---|---|---|
| 1955 | 29.3 | 42.7 | 11.3 | 9.6 | 4.5 | 2.6 | 100 |
| 1956 | 30.0 | 40.6 | 12.2 | 9.6 | 5.0 | 2.6 | 100 |
| 1957 | 30.5 | 40.1 | 12.3 | 9.9 | 4.8 | 2.4 | 100 |
| 1958 | 28.7 | 40.5 | 13.7 | 9.0 | 5.8 | 2.3 | 100 |
| 1959 | 30.4 | 38.7 | 13.7 | 9.6 | 5.5 | 2.1 | 100 |
| 1960 | 29.8 | 38.0 | 15.0 | 9.2 | 5.5 | 2.5 | 100 |
| 1961 | 29.2 | 39.1 | 14.5 | 9.3 | 5.8 | 2.1 | 100 |
| 1962 | 29.6 | 38.0 | 15.2 | 8.9 | 6.2 | 2.1 | 100 |
| 1963 | 31.9 | 36.3 | 15.2 | 8.8 | 5.9 | 1.9 | 100 |
| 1964 | 33.6 | 33.5 | 16.4 | 8.3 | 6.5 | 1.7 | 100 |
| 1965 | 35.2 | 30.3 | 17.1 | 8.5 | 6.6 | 2.3 | 100 |
| 1966 | 37.8 | 29.0 | 16.0 | 8.5 | 6.7 | 2.0 | 100 |

TABLE 4 - AVERAGE PRICES OF ILLINOIS MINERAL PRODUCTS, 1961-1966

| Year | Coal (ton) | Crude oil (bbl.) | Crushed stone (ton) | Cement (bbl.) | Lime (ton) | Silica sand (ton) |
|---|---|---|---|---|---|---|
| 1961 | $3.91 | $3.00 | $1.37 | $3.28 | $16.31 | $3.69* |
| 1962 | 3.86 | 3.00 | 1.36 | 3.29 | 16.29 | 3.96* |
| 1963 | 3.80 | 2.96 | 1.33 | 3.28 | 16.51 | 3.61* |
| 1964 | 3.79 | 2.93 | 1.35 | 3.30 | 16.61 | 3.27 |
| 1965 | 3.74 | 2.93 | 1.34 | 3.26 | 15.73 | 3.30 |
| 1966 | 3.85 | 3.00 | 1.35 | 3.11 | 15.53 | 3.41 |

| Year | Sand (ton) | Gravel (ton) | Fluorspar (ton) | Zinc (ton) | Lead (ton) | Tripoli (ton) |
|---|---|---|---|---|---|---|
| 1961 | $0.88 | $0.89 | $50.95 | $230.00 | $206.00 | $25.02 |
| 1962 | 0.86 | 0.93 | 48.12 | 230.00 | 184.00 | 26.13 |
| 1963 | 0.85 | 0.97 | 49.58 | 230.00 | 216.00 | 26.90 |
| 1964 | 0.87 | 1.01 | 50.62 | 272.00 | 262.00 | 26.88 |
| 1965 | 0.85 | 0.91 | 49.40 | 292.00 | 312.00 | 26.59 |
| 1966 | 0.84 | 0.91 | 45.42 | 290.00 | 302.00 | 26.56 |

*Revised figures.

TABLE 5 - ILLINOIS COAL PRODUCTION BY COUNTIES, 1966[a]

| County | Number of mines | Tons mined | | Total tons | Total value[b] |
|---|---|---|---|---|---|
| | | Underground | Strip | | |
| Adams | 1 | — | 21,827 | 21,827 | $ 84,034 |
| Christian | 1 | 5,635,573 | — | 5,635,573 | 21,696,956 |
| Douglas | 1 | 653,624 | — | 653,624 | 2,516,452 |
| Franklin | 4 | 7,598,406 | — | 7,598,406 | 29,253,863 |
| Fulton | 8 | — | 8,512,881 | 8,512,881 | 32,774,592 |
| Gallatin | 4 | 81,601 | 59,724 | 141,325 | 544,101 |
| Greene | 1 | — | 2,313 | 2,313 | 8,905 |
| Jackson | 3 | — | 586,620 | 586,620 | 2,258,487 |
| Jefferson | 1 | 2,767,835 | — | 2,767,835 | 10,656,165 |
| Kankakee | 1 | — | 927,574 | 927,574[c] | 3,571,160 |
| Knox | 2 | — | 1,218,670 | 1,218,670 | 4,691,880 |
| Logan | 1 | 19,477 | — | 19,477 | 74,986 |
| Macoupin | 1 | 447,676 | — | 447,676 | 1,723,553 |
| Mercer | 2 | 12,694 | 489 | 13,183 | 50,755 |
| Montgomery | 2 | 3,301,384 | — | 3,301,384 | 12,710,328 |
| Peoria | 5 | 8,632 | 1,413,197 | 1,421,829 | 5,474,042 |
| Perry | 3 | — | 8,761,000 | 8,761,000 | 33,729,850 |
| Randolph | 4 | 826,494 | 3,031,859 | 3,858,353 | 14,854,659 |
| St. Clair | 4 | 387,532 | 5,726,502 | 6,114,034 | 23,539,031 |
| Saline | 10 | 1,527,070 | 1,121,015 | 2,648,085 | 10,195,127 |
| Schuyler | 1 | — | 210,666 | 210,666 | 811,064 |
| Stark | 1 | — | 587,518 | 587,518 | 2,261,944 |
| Vermilion | 5 | 44,222 | 784,136 | 828,358 | 3,189,178 |
| Washington | 1 | 32,557 | — | 32,557 | 125,344 |
| Williamson | 17 | 3,787,394 | 3,114,535 | 6,901,929 | 26,572,427 |
| Total | 84 | 27,132,171 | 36,080,526 | 63,212,697 | $243,368,883 |

[a] Production figures, Illinois State Department of Mines and Minerals.
[b] Average mine value for Illinois coal estimated at $3.85 per ton, 1966.
[c] Mine tipple located in Kankakee County - 359,891 tons mined in Grundy County and 567,683 tons mined in Will County.

TABLE 6 - COAL PRODUCTION BY ILLINOIS COUNTIES, 1882-1966[a]

| County | Total production (tons) | Total years active | Last year active |
|---|---|---|---|
| Adams | 309,628 | 23 | 1966 |
| Bond | 7,355,569 | 57 | 1942 |
| Brown | 65,347 | 40 | 1963 |
| Bureau | 53,823,055 | 80 | 1964 |
| Calhoun | 96,247 | 27 | 1912 |
| Cass | 212,477 | 53 | 1941 |
| Christian | 270,869,381 | 82 | 1966 |
| Clark | 4,482 | 2 | 1955 |
| Clay | 801 | 1 | 1963 |
| Clinton | 38,656,325 | 79 | 1960 |
| Coles | 198,932 | 6 | 1888 |
| Crawford | 45,400 | 16 | 1961 |
| Douglas | 7,270,666 | 21 | 1966 |
| Edgar | 915,698 | 41 | 1952 |
| Effingham | 796 | 1 | 1890 |
| Franklin | 528,270,772 | 68 | 1966 |
| Fulton | 246,820,072 | 85 | 1966 |
| Gallatin | 6,189,831 | 82 | 1966 |
| Greene | 692,152 | 83 | 1966 |
| Grundy | 42,633,628 | 83 | 1966 |
| Hamilton | 22,097 | 16 | 1905 |
| Hancock | 771,281 | 72 | 1958 |
| Hardin | 40 | 1 | 1890 |
| Henry | 22,910,053 | 84 | 1965 |
| Jackson | 96,072,694 | 85 | 1966 |
| Jasper | 23,739 | 11 | 1939 |
| Jefferson | 44,266,560 | 63 | 1966 |
| Jersey | 120,350 | 59 | 1951 |
| Johnson | 245,942 | 53 | 1965 |
| Kankakee | 8,752,960 | 43 | 1962 |
| Knox | 48,574,633 | 85 | 1966 |
| LaSalle | 65,547,638 | 79 | 1960 |
| Livingston | 10,111,437 | 80 | 1961 |
| Logan | 14,491,567 | 82 | 1966 |
| Macon | 11,000,468 | 65 | 1947 |
| Macoupin | 265,277,180 | 85 | 1966 |
| McDonough | 2,634,903 | 69 | 1951 |
| McLean | 5,544,139 | 47 | 1928 |
| Madison | 164,295,772 | 83 | 1964 |
| Marion | 39,247,722 | 82 | 1963 |
| Marshall | 12,516,141 | 70 | 1951 |
| Menard | 13,462,005 | 84 | 1965 |
| Mercer | 15,320,938 | 79 | 1966 |
| Monroe | 8,284 | 13 | 1941 |
| Montgomery | 106,913,912 | 85 | 1966 |
| Morgan | 190,787 | 64 | 1951 |
| Moultrie | 2,032,236 | 16 | 1924 |
| Peoria | 75,037,727 | 85 | 1966 |
| Perry | 208,670,346 | 85 | 1966 |
| Pike | 5,081 | 8 | 1942 |
| Pope | 1,562 | 11 | 1938 |
| Putnam | 10,071,893 | 29 | 1938 |
| Randolph | 93,153,071 | 85 | 1966 |
| Richland | 154 | 1 | 1890 |
| Rock Island | 3,846,169 | 67 | 1948 |
| St. Clair | 282,218,104 | 85 | 1966 |
| Saline | 223,184,986 | 85 | 1966 |
| Sangamon | 233,449,607 | 83 | 1964 |
| Schuyler | 7,747,691 | 84 | 1966 |
| Scott | 612,476 | 61 | 1942 |
| Shelby | 4,119,763 | 67 | 1950 |
| Stark | 4,364,872 | 76 | 1966 |
| Tazewell | 17,633,802 | 75 | 1956 |
| Vermilion | 162,495,470 | 85 | 1966 |
| Wabash | 198,226 | 36 | 1964 |
| Warren | 685,466 | 73 | 1954 |
| Washington | 18,089,788 | 85 | 1966 |
| White | 1,676,741 | 36 | 1940 |
| Will | 40,732,382 | 85 | 1966 |
| Williamson | 375,110,925 | 85 | 1966 |
| Woodford | 7,810,160 | 70 | 1951 |
| Total (1882-1966) | | | 3,925,703,199 |
| Estimated production (1833-1881) | | | 73,386,123 |
| Total production (1833-1966) | | | 3,999,089,322 |

[a]Production figures, Illinois State Department of Mines and Minerals.

TABLE 7 - ESTIMATED OIL PRODUCTION BY ILLINOIS COUNTIES, 1888-1966[a]

| County | Total production[b] 1888-1966 | 1966 production | | 1966 value[c] |
|---|---|---|---|---|
| | | Thousands of barrels | Percent of state total | |
| Adams | 159 | 4 | 0.01 | $ 12,000 |
| Bond | 6,697 | 135 | 0.22 | 405,000 |
| Brown | 208 | 3 | — | 9,000 |
| Champaign | 3 | 3 | — | 9,000 |
| Christian | 21,664 | 713 | 1.15 | 2,139,000 |
| Clark-Cumberland | 85,572 | 726 | 1.17 | 2,178,000 |
| Clay | 112,802 | 2,845 | 4.59 | 8,535,000 |
| Clinton | 77,010 | 953 | 1.54 | 2,859,000 |
| Coles | 19,819 | 709 | 1.14 | 2,127,000 |
| Crawford | 210,244 | 3,472 | 5.60 | 10,416,000 |
| DeWitt | 1,072 | 283 | 0.46 | 849,000 |
| Douglas | 3,215 | 96 | 0.15 | 288,000 |
| Edgar | 2,664 | 64 | 0.10 | 192,000 |
| Edwards | 39,964 | 982 | 1.58 | 2,946,000 |
| Effingham | 11,992 | 427 | 0.69 | 1,281,000 |
| Fayette | 345,249 | 8,928 | 14.40 | 26,784,000 |
| Franklin | 61,989 | 1,450 | 2.34 | 4,350,000 |
| Gallatin | 42,625 | 889 | 1.43 | 2,667,000 |
| Hamilton | 113,206 | 4,326 | 6.98 | 12,978,000 |
| Hancock-McDonough | 5,111 | 35 | 0.06 | 105,000 |
| Jasper | 41,731 | 1,695 | 2.73 | 5,085,000 |
| Jefferson | 71,530 | 1,339 | 2.16 | 4,017,000 |
| Lawrence | 343,096 | 7,033 | 11.35 | 21,099,000 |
| Macon | 829 | 18 | 0.03 | 54,000 |
| Macoupin | 214 | 4 | 0.01 | 12,000 |
| Madison | 15,975 | 250 | 0.40 | 750,000 |
| Marion | 370,951 | 5,483 | 8.85 | 16,449,000 |
| Monroe | 2 | — | — | — |
| Montgomery | 110 | 1 | — | 3,000 |
| Moultrie | 67 | 6 | 0.01 | 18,000 |
| Perry | 601 | 24 | 0.04 | 72,000 |
| Randolph | 3,451 | 103 | 0.17 | 309,000 |
| Richland | 86,411 | 2,130 | 3.44 | 6,390,000 |
| St. Clair | 2,883 | — | — | — |
| Saline | 15,914 | 1,003 | 1.62 | 3,009,000 |
| Sangamon | 1,267 | 168 | 0.27 | 504,000 |
| Schuyler | 1 | — | — | — |
| Shelby | 1,244 | 66 | 0.11 | 198,000 |
| Wabash | 91,247 | 2,782 | 4.49 | 8,346,000 |
| Washington | 23,726 | 568 | 0.92 | 1,704,000 |
| Wayne | 197,624 | 6,040 | 9.74 | 18,120,000 |
| White | 229,940 | 6,196 | 10.00 | 18,588,000 |
| Williamson | 533 | 30 | 0.05 | 90,000 |
| Total | 2,660,612 | 61,982 | 100.00 | $185,946,000 |

[a] Subject to revision.
[b] In thousands of barrels.
[c] Average price estimated at $3.00 per barrel.

TABLE 8 - ILLINOIS STONE PRODUCTION BY REGIONS, 1966[a,b]

| Producing counties and operations[c] | Stone use | Tons | Value | Average per ton |
|---|---|---|---|---|
| **NORTHWEST** | | | | |
| Carroll, Ogle, Henry, Rock Island, Jo Daviess, Stephenson, Lee, Whiteside, Mercer, Winnebago | Road and building | 4,201,209 | $ 4,736,221 | $1.13 |
| Operations - 115 | Agstone | 508,879 | 684,447 | 1.35 |
| | All other | 235,145 | 253,733 | 1.08 |
| | Total | 4,945,233 | $ 5,674,401 | $1.15 |
| **WEST** | | | | |
| Adams, Knox, Brown, McDonough, Hancock, Schuyler, Henderson, Warren | Road and building | 1,394,536 | $ 1,808,695 | $1.30 |
| Operations - 24 | Agstone | 461,160 | 728,396 | 1.58 |
| | All other | 374,078 | 838,325 | 2.24 |
| | Total | 2,229,774 | $ 3,375,416 | $1.51 |
| **WEST SOUTHWEST** | | | | |
| Calhoun, Madison, Christian, Montgomery, Greene, Pike, Jersey, Scott | Road and building | 1,926,895 | $ 3,020,274 | $1.57 |
| Operations - 26 | Agstone | 554,783 | 822,513 | 1.48 |
| | All other | 43,213 | 66,174 | 1.53 |
| | Total | 2,524,891 | $ 3,908,961 | $1.55 |
| **SOUTHWEST** | | | | |
| Clinton, Randolph, Jackson, St. Clair, Johnson, Union, Monroe, Washington, Pulaski | Road and building | 3,876,400 | $ 5,861,151 | $1.51 |
| Operations - 23 | Agstone | 789,921 | 1,150,221 | 1.46 |
| | All other | 1,756,460 | 2,337,675 | 1.33 |
| | Total | 6,422,781 | $ 9,349,047 | $1.46 |
| **NORTHEAST** | | | | |
| Boone, Kendall, Cook, LaSalle, DeKalb, McHenry, DuPage, Will, Kane | Road and building | 17,339,763 | $21,965,027 | $1.27 |
| Operations - 26 | Agstone | 452,998 | 663,713 | 1.47 |
| | All other | 675,792 | 916,020 | 1.36 |
| | Total | 18,468,553 | $23,544,760 | $1.27 |
| **EAST** | | | | |
| Kankakee, Livingston, Vermilion | Road and building | 3,331,705 | $ 4,220,838 | $1.27 |
| Operations - 10 | Agstone | 1,109,301 | 1,492,942 | 1.35 |
| | All other | 187,762 | 417,639 | 2.22 |
| | Total | 4,628,768 | $ 6,131,419 | $1.32 |
| **CENTRAL** | | | | |
| Logan, Menard, Peoria | Road and building | 1,050,062 | $ 1,536,801 | $1.46 |
| Operations - 6 | Agstone | 328,599 | 551,978 | 1.68 |
| | All other | — | — | — |
| | Total | 1,378,661 | $ 2,088,779 | $1.52 |
| **EAST SOUTHEAST** | | | | |
| Clark, Fayette, Clay, Marion, Coles, Shelby | Road and building | 812,972 | $ 1,500,721 | $1.85 |
| Operations - 8 | Agstone | 444,712 | 843,583 | 1.90 |
| | All other | — | — | — |
| | Total | 1,257,684 | $ 2,344,304 | $1.86 |
| **SOUTHEAST** | | | | |
| Hardin, Jefferson, Massac | Road and building | 450,346 | $ 613,912 | $1.36 |
| Operations - 8 | Agstone | 272,677 | 381,101 | 1.40 |
| | All other | — | — | — |
| | Total | 723,023 | $ 995,013 | $1.38 |
| **STATE TOTALS** | | | | |
| Counties - 59 | Road and building | 34,383,888 | $45,263,640 | $1.32 |
| Operations - 246 | Agstone | 4,923,030 | 7,318,894 | 1.49 |
| | All other | 3,272,450 | 4,829,566 | 1.48 |
| | Total | 42,579,368 | $57,412,100 | $1.35 |

[a] Based on U.S. Bureau of Mines figures. All values at the quarry.
[b] Dimension stone and stone used for cement and lime not included.
[c] Summary of commercial stone production. Figure 3 shows regions and counties.

TABLE 9 - ILLINOIS COMMON SAND PRODUCTION BY REGIONS, 1966[a]

| Producing counties and operations[b] | Sand use | Tons | Value | Average per ton |
|---|---|---|---|---|
| **NORTHWEST** | | | | |
| Bureau, Carroll, Henry, Jo Daviess, Lee, Ogle, Rock Island, Stephenson, Whiteside, Winnebago | Paving | 753,000 | $ 591,000 | $0.78 |
| Operations - 28 | Building | 1,238,000 | 1,074,000 | 0.87 |
| | All other | 395,000 | 201,000 | 0.51 |
| | Total | 2,386,000 | $ 1,866,000 | $0.78 |
| **WEST** | | | | |
| Adams, Brown, Fulton, Henderson, Knox | Paving | 142,000 | $ 101,000 | $0.71 |
| Operations - 9 | Building | 63,000 | 61,000 | 0.97 |
| | All other | 59,000 | 40,000 | 0.68 |
| | Total | 264,000 | $ 202,000 | $0.77 |
| **WEST SOUTHWEST** | | | | |
| Bond, Madison, Pike, Sangamon | Paving | 286,000 | $ 280,000 | $0.98 |
| Operations - 8 | Building | 458,000 | 448,000 | 0.98 |
| | All other | 97,000 | 64,000 | 0.66 |
| | Total | 841,000 | $ 792,000 | $0.94 |
| **SOUTHWEST** | | | | |
| Alexander, Jackson, Pulaski, Randolph, St. Clair, Union | Paving | 155,000 | $ 144,000 | $0.93 |
| Operations - 6 | Building | 317,000 | 305,000 | 0.96 |
| | All other | 50,000 | 44,000 | 0.88 |
| | Total | 522,000 | $ 493,000 | $0.94 |
| **CENTRAL** | | | | |
| DeWitt, Logan, McLean, Macon, Marshall, Mason, Peoria, Tazewell, Woodford | Paving | 688,000 | $ 566,000 | $0.82 |
| Operations - 23 | Building | 651,000 | 608,000 | 0.93 |
| | All other | 257,000 | 162,000 | 0.63 |
| | Total | 1,596,000 | $ 1,336,000 | $0.84 |
| **NORTHEAST** | | | | |
| Boone, Cook, DeKalb, DuPage, Grundy, Kane, Kendall, Lake, LaSalle, McHenry, Will | Paving | 3,010,000 | $ 2,735,000 | $0.91 |
| Operations - 53 | Building | 3,511,000 | 3,141,000 | 0.89 |
| | All other | 786,000 | 383,000 | 0.49 |
| | Total | 7,307,000 | $ 6,259,000 | $0.86 |
| **EAST** | | | | |
| Champaign, Ford, Kankakee, Livingston, Vermilion | Paving | 232,000 | $ 210,000 | $0.91 |
| Operations - 13 | Building | 216,000 | 195,000 | 0.90 |
| | All other | 172,000 | 73,000 | 0.42 |
| | Total | 620,000 | $ 478,000 | $0.77 |
| **EAST SOUTHEAST** | | | | |
| Clark, Coles, Crawford, Cumberland, Effingham, Fayette, Jasper, Lawrence, Shelby | Paving | 218,000 | $ 153,000 | $0.70 |
| Operations - 17 | Building | 72,000 | 42,000 | 0.58 |
| | All other | 77,000 | 40,000 | 0.52 |
| | Total | 367,000 | $ 235,000 | $0.64 |
| **SOUTHEAST** | | | | |
| Gallatin, Massac, Wabash, White | Paving | 130,000 | $ 140,000 | $1.08 |
| Operations - 9 | Building | 298,000 | 307,000 | 1.03 |
| | All other | 40,000 | 31,000 | 0.78 |
| | Total | 468,000 | $ 478,000 | $1.02 |
| **STATE TOTALS** | | | | |
| Counties - 63 | Paving | 5,614,000 | $ 4,920,000 | $0.88 |
| Operations - 166 | Building | 6,824,000 | 6,181,000 | 0.91 |
| | All other | 1,933,000 | 1,038,000 | 0.54 |
| | Total | 14,371,000 | $12,139,000 | $0.84 |

[a] Based on U.S. Bureau of Mines figures. All values at the pit.
[b] Summary of commercial sand production. Figure 3 shows regions and counties.

TABLE 10 - ILLINOIS GRAVEL PRODUCTION BY REGIONS, 1966[a]

| Producing counties and operations[b] | Gravel use | Tons | Value | Average per ton |
|---|---|---|---|---|
| **NORTHWEST** | | | | |
| Bureau, Carroll, Henry, Jo Daviess, Lee, Ogle, Putnam, Rock Island, Stephenson, Whiteside, Winnebago | Paving | 865,000 | $ 750,000 | $0.87 |
| Operations - 34 | Building | 641,000 | 719,000 | 1.12 |
| | All other | 31,000 | 23,000 | 0.74 |
| | Total | 1,537,000 | $ 1,492,000 | $0.97 |
| **WEST** | | | | |
| Adams, Brown, Fulton, Knox | Paving | 296,000 | $ 370,000 | $1.25 |
| Operations - 7 | Building | 43,000 | 65,000 | 1.51 |
| | All other | — | — | — |
| | Total | 339,000 | $ 435,000 | $1.28 |
| **WEST SOUTHWEST** | | | | |
| Bond, Pike, Sangamon | Paving | 100,000 | $ 163,000 | $1.63 |
| Operations - 6 | Building | 118,000 | 171,000 | 1.45 |
| | All other | 146,000 | 96,000 | 0.66 |
| | Total | 364,000 | $ 430,000 | $1.18 |
| **SOUTHWEST** | | | | |
| Alexander, Pulaski, Union | Paving | 17,000 | $ 13,000 | $0.76 |
| Operations - 3 | Building | — | — | — |
| | All other | — | — | — |
| | Total | 17,000 | $ 13,000 | $0.76 |
| **CENTRAL** | | | | |
| DeWitt, Logan, McLean, Macon, Marshall, Mason, Peoria, Tazewell, Woodford | Paving | 2,641,000 | $ 3,007,000 | $1.14 |
| Operations - 44 | Building | 617,000 | 775,000 | 1.26 |
| | All other | 137,000 | 104,000 | 0.76 |
| | Total | 3,395,000 | $ 3,886,000 | $1.14 |
| **NORTHEAST** | | | | |
| Boone, Cook, DeKalb, DuPage, Grundy, Kane, Kendall, Lake, LaSalle, McHenry, Will | Paving | 4,982,000 | $ 4,320,000 | $0.87 |
| Operations - 73 | Building | 5,906,000 | 4,770,000 | 0.81 |
| | All other | 893,000 | 527,000 | 0.59 |
| | Total | 11,781,000 | $ 9,617,000 | $0.82 |
| **EAST** | | | | |
| Champaign, Ford, Iroquois, Kankakee, Livingston, Vermilion | Paving | 317,000 | $ 335,000 | $1.06 |
| Operations - 22 | Building | 99,000 | 138,000 | 1.39 |
| | All other | 194,000 | 82,000 | 0.42 |
| | Total | 610,000 | $ 555,000 | $0.91 |
| **EAST SOUTHEAST** | | | | |
| Clark, Coles, Crawford, Cumberland, Fayette, Jasper, Lawrence, Moultrie, Shelby | Paving | 665,000 | $ 541,000 | $0.81 |
| Operations - 16 | Building | 51,000 | 51,000 | 1.00 |
| | All other | 46,000 | 18,000 | 0.39 |
| | Total | 762,000 | $ 610,000 | $0.80 |
| **SOUTHEAST** | | | | |
| Gallatin, Massac, Wabash, White | Paving | 203,000 | $ 234,000 | $1.15 |
| Operations - 8 | Building | 12,000 | 16,000 | 1.33 |
| | All other | 7,000 | 8,000 | 1.14 |
| | Total | 222,000 | $ 258,000 | $1.16 |
| **STATE TOTALS** | | | | |
| Counties - 60 | Paving | 10,086,000 | $ 9,733,000 | $0.97 |
| Operations - 213 | Building | 7,487,000 | 6,705,000 | 0.90 |
| | All other | 1,454,000 | 858,000 | 0.59 |
| | Total | 19,027,000 | $17,296,000 | $0.91 |

[a] Based on U.S. Bureau of Mines figures. All values at the pit.
[b] Summary of commercial gravel production. Figure 3 shows regions and counties.

TABLE 11 - ILLINOIS STONE, SAND, AND GRAVEL PRODUCED BY REGIONS, 1958-1966[a]

| Year | Crushed stone | | Common sand | | Gravel | |
|---|---|---|---|---|---|---|
| | Tons | Value | Tons | Value | Tons | Value |
| | | | NORTHWEST | | | |
| 1958 | 2,156,378 | $ 2,385,418 | 1,829,311 | $1,308,719 | 1,611,891 | $1,444,081 |
| 1959 | 1,688,388 | 1,918,743 | 1,510,795 | 1,079,945 | 1,425,657 | 1,331,045 |
| 1960 | 3,561,122 | 3,891,959 | 1,839,844 | 1,370,134 | 1,582,500 | 1,627,040 |
| 1961 | 3,693,503 | 4,190,437 | 2,069,495 | 1,587,096 | 1,989,033 | 1,875,279 |
| 1962 | 4,231,141 | 4,819,131 | 2,391,511 | 1,953,420 | 1,770,970 | 1,792,618 |
| 1963 | 3,935,724 | 4,695,426 | 2,248,973 | 1,834,094 | 1,707,841 | 1,793,047 |
| 1964 | 4,448,127 | 5,286,308 | 2,275,000 | 1,759,000 | 1,776,000 | 1,873,000 |
| 1965 | 4,945,042 | 5,451,689 | 2,119,000 | 1,666,000 | 1,536,000 | 1,350,000 |
| 1966 | 4,945,233 | 5,674,401 | 2,386,000 | 1,866,000 | 1,537,000 | 1,492,000 |
| | | | WEST | | | |
| 1958 | 1,631,221 | $ 2,478,669 | 177,519 | $ 157,477 | 394,563 | $ 473,384 |
| 1959 | 1,373,352 | 2,069,847 | 152,673 | 150,453 | 470,483 | 567,781 |
| 1960 | 1,770,751 | 2,650,701 | 125,236 | 130,186 | 328,742 | 422,973 |
| 1961 | 2,006,386 | 2,724,085 | 152,483 | 142,006 | 339,358 | 423,864 |
| 1962 | 1,858,947 | 2,834,179 | 156,149 | 149,914 | 343,470 | 453,897 |
| 1963 | 1,773,921 | 2,756,289 | 147,917 | 132,057 | 259,925 | 350,121 |
| 1964 | 1,871,573 | 2,920,524 | 188,000 | 160,000 | 331,000 | 446,000 |
| 1965 | 2,322,218 | 3,495,635 | 271,000 | 223,000 | 353,000 | 479,000 |
| 1966 | 2,229,774 | 3,375,416 | 264,000 | 202,000 | 339,000 | 435,000 |
| | | | WEST SOUTHWEST | | | |
| 1958 | 1,754,039 | $ 2,857,094 | 699,415 | $ 593,090 | 455,368 | $ 448,874 |
| 1959 | 1,550,914 | 2,547,205 | 715,425 | 624,425 | 344,790 | 346,454 |
| 1960 | 1,478,955 | 2,335,579 | 711,988 | 648,433 | 325,314 | 292,547 |
| 1961 | 2,006,819 | 3,078,501 | 780,534 | 700,316 | 375,479 | 327,670 |
| 1962 | 2,344,997 | 3,540,015 | 735,135 | 664,809 | 384,408 | 358,625 |
| 1963 | 2,455,711 | 3,822,566 | 883,197 | 758,940 | 297,031 | 327,029 |
| 1964 | 2,609,666 | 3,946,366 | 712,000 | 716,000 | 511,000 | 711,000 |
| 1965 | 2,912,911 | 4,374,390 | 988,000 | 1,028,000 | 336,000 | 439,000 |
| 1966 | 2,524,891 | 3,908,961 | 841,000 | 792,000 | 364,000 | 430,000 |
| | | | SOUTHWEST | | | |
| 1958 | 5,700,915 | $ 8,818,555 | 551,253 | $ 475,503 | 7,153 | $ 7,041 |
| 1959 | 5,665,890 | 8,561,139 | 654,333 | 583,131 | 4,929 | 4,452 |
| 1960 | 6,016,336 | 8,691,930 | 578,800 | 512,735 | — | — |
| 1961 | 5,322,621 | 8,185,291 | 636,012 | 568,847 | — | — |
| 1962 | 5,621,838 | 8,343,699 | 540,134 | 510,522 | 14,817 | 10,826 |
| 1963 | 5,734,252 | 8,107,952 | 522,376 | 466,457 | 8,808 | 8,010 |
| 1964 | 6,502,034 | 9,452,111 | 598,000 | 531,000 | 25,000 | 22,000 |
| 1965 | 7,010,531 | 10,165,201 | 581,000 | 525,000 | 30,000 | 28,000 |
| 1966 | 6,422,781 | 9,349,047 | 522,000 | 493,000 | 17,000 | 13,000 |
| | | | CENTRAL | | | |
| 1958 | 924,872 | $ 1,292,553 | 1,715,655 | $1,517,770 | 3,384,386 | $3,202,777 |
| 1959 | 979,416 | 1,409,662 | 1,446,456 | 1,408,400 | 2,331,312 | 2,392,255 |
| 1960 | 1,024,938 | 1,411,229 | 1,403,753 | 1,459,038 | 2,289,190 | 2,499,238 |
| 1961 | 992,859 | 1,495,461 | 1,324,285 | 1,359,789 | 2,824,876 | 2,957,801 |
| 1962 | 1,222,549 | 1,789,859 | 1,458,087 | 1,494,756 | 3,202,631 | 3,375,086 |
| 1963 | 1,154,146 | 1,700,933 | 1,462,032 | 1,381,042 | 2,684,150 | 3,266,573 |
| 1964 | 1,304,665 | 1,911,831 | 1,405,000 | 1,252,000 | 3,341,000 | 4,165,000 |
| 1965 | 1,733,879 | 2,535,027 | 1,630,000 | 1,295,000 | 3,263,000 | 3,759,000 |
| 1966 | 1,378,661 | 2,088,779 | 1,596,000 | 1,336,000 | 3,395,000 | 3,886,000 |

[a]Figure 3 shows regions and counties.

TABLE 11 - Continued

| Year | Crushed stone | | Common sand | | Gravel | |
|---|---|---|---|---|---|---|
| | Tons | Value | Tons | Value | Tons | Value |
| | | | NORTHEAST | | | |
| 1958 | 16,317,775 | $19,875,221 | 6,100,712 | $ 5,981,250 | 9,858,499 | $ 9,375,969 |
| 1959 | 15,604,068 | 18,432,918 | 6,087,269 | 5,737,011 | 8,394,023 | 7,298,402 |
| 1960 | 17,948,063 | 24,603,820 | 6,647,987 | 5,976,329 | 9,117,327 | 7,906,727 |
| 1961 | 15,183,438 | 19,866,258 | 6,438,967 | 5,815,984 | 8,579,033 | 7,027,952 |
| 1962 | 18,114,409 | 23,795,950 | 7,620,107 | 6,435,234 | 8,895,704 | 7,707,407 |
| 1963 | 15,451,977 | 19,038,314 | 6,377,350 | 5,377,713 | 8,336,616 | 7,202,685 |
| 1964 | 15,865,295 | 20,070,693 | 6,976,000 | 6,084,000 | 9,140,000 | 7,998,000 |
| 1965 | 17,451,867 | 21,863,261 | 6,657,000 | 5,662,000 | 11,258,000 | 9,041,000 |
| 1966 | 18,468,553 | 23,544,760 | 7,307,000 | 6,259,000 | 11,781,000 | 9,617,000 |
| | | | EAST | | | |
| 1958 | 3,290,711 | $ 4,112,865 | 129,535 | $ 127,094 | 240,250 | $ 207,462 |
| 1959 | 3,590,076 | 4,404,303 | 144,008 | 117,902 | 393,540 | 247,189 |
| 1960 | 3,998,696 | 5,400,197 | 324,887 | 247,838 | 154,929 | 173,416 |
| 1961 | 3,003,010 | 4,117,731 | 364,065 | 281,969 | 311,074 | 311,232 |
| 1962 | 3,610,413 | 4,849,667 | 490,138 | 365,824 | 445,027 | 451,725 |
| 1963 | 3,572,879 | 4,885,343 | 343,717 | 273,470 | 442,145 | 432,941 |
| 1964 | 4,116,128 | 5,520,260 | 509,000 | 395,000 | 543,000 | 571,000 |
| 1965 | 4,813,322 | 6,352,908 | 497,000 | 411,000 | 624,000 | 599,000 |
| 1966 | 4,628,768 | 6,131,419 | 620,000 | 478,000 | 610,000 | 555,000 |
| | | | EAST SOUTHEAST | | | |
| 1958 | 884,821 | $ 1,412,679 | 107,315 | $ 78,884 | 307,257 | $ 216,739 |
| 1959 | 969,165 | 1,587,679 | 142,550 | 98,715 | 403,693 | 333,672 |
| 1960 | 821,808 | 1,310,009 | 220,181 | 179,542 | 459,411 | 408,644 |
| 1961 | 957,936 | 1,550,227 | 230,569 | 169,562 | 885,099 | 707,119 |
| 1962 | 1,074,972 | 1,705,902 | 280,765 | 176,322 | 743,480 | 586,100 |
| 1963 | 985,482 | 1,651,418 | 297,231 | 194,626 | 568,285 | 468,395 |
| 1964 | 1,230,909 | 2,124,957 | 682,000 | 620,000 | 644,000 | 639,000 |
| 1965 | 1,450,061 | 2,578,665 | 379,000 | 241,000 | 563,000 | 556,000 |
| 1966 | 1,257,684 | 2,344,304 | 367,000 | 235,000 | 762,000 | 610,000 |
| | | | SOUTHEAST | | | |
| 1958 | 404,057 | $ 643,037 | 150,817 | $ 120,673 | 319,090 | $ 319,760 |
| 1959 | 487,873 | 814,969 | 123,969 | 95,339 | 307,240 | 308,612 |
| 1960 | 411,348 | 682,934 | 136,110 | 108,819 | 357,740 | 364,004 |
| 1961 | 410,312 | 627,947 | 181,627 | 150,594 | 345,802 | 346,762 |
| 1962 | 448,956 | 635,174 | 208,936 | 192,467 | 322,818 | 304,623 |
| 1963 | 823,540 | 1,096,454 | 273,763 | 279,983 | 253,342 | 251,114 |
| 1964 | 677,439 | 1,047,355 | 336,000 | 347,000 | 256,000 | 291,000 |
| 1965 | 653,595 | 988,490 | 302,000 | 305,000 | 231,000 | 257,000 |
| 1966 | 723,023 | 995,013 | 468,000 | 478,000 | 222,000 | 258,000 |
| | | | STATE TOTALS | | | |
| 1958 | 33,064,789 | $43,876,091 | 11,461,532 | $10,360,460 | 16,578,457 | $15,696,087 |
| 1959 | 31,909,142 | 41,746,465 | 10,977,478 | 9,895,321 | 14,075,667 | 12,829,862 |
| 1960 | 37,032,017 | 50,978,358 | 11,988,786 | 10,633,054 | 14,615,153 | 13,694,589 |
| 1961 | 33,576,884 | 45,835,938 | 12,178,037 | 10,776,163 | 15,649,754 | 13,977,679 |
| 1962 | 38,528,222 | 52,313,576 | 13,880,962 | 11,943,268 | 16,123,325 | 15,040,907 |
| 1963 | 35,887,632 | 47,754,695 | 12,556,556 | 10,698,382 | 14,558,143 | 14,099,915 |
| 1964 | 38,625,836 | 52,280,405 | 13,681,000 | 11,864,000 | 16,567,000 | 16,716,000 |
| 1965 | 43,293,426 | 57,805,266 | 13,424,000 | 11,356,000 | 18,194,000 | 16,508,000 |
| 1966 | 42,579,368 | 57,412,100 | 14,371,000 | 12,139,000 | 19,027,000 | 17,296,000 |

TABLE 12 - ILLINOIS SILICA SAND PRODUCTION, 1965-1966[a]

| Silica sand use | 1965 | | 1966 | |
|---|---|---|---|---|
| | Tons | Value | Tons | Value |
| Glass sand | 1,861,000 | $ 4,041,000 | 1,745,000 | $ 3,655,000 |
| Molding sand | 1,018,000 | 3,050,000 | 1,192,000 | 3,890,000 |
| Other uses[b] | 544,000 | 2,627,000 | 916,000[d] | 5,600,000[d] |
| Ground silica sand[c] | 208,000 | 2,273,000 | | |
| Total silica sand | 3,631,000 | $11,991,000 | 3,853,000 | $13,145,000 |

[a]Based on U.S. Bureau of Mines figures.
[b]Grinding and polishing, blast, fire and furnace, engine, filter, oil.
[c]For abrasives, ceramics, foundry, filler, chemical.
[d]1966 detail figures not available for publication.

TABLE 13 - PRODUCTION OF ILLINOIS CLAY PRODUCTS, 1965-1966

| Clay products reported | 1965 | | 1966 | |
|---|---|---|---|---|
| | Amount | Value | Amount | Value |
| Face brick (number) | 182,025,117 | $ 8,299,081 | 176,638,077 | $ 8,539,457 |
| Common brick (number) | 133,284,664 | 3,482,034 | 122,136,801 | 3,563,312 |
| Drain and sewer tile (tons) | 157,744 | 5,959,191 | 173,352 | 5,884,342 |
| Lightweight aggregate (tons) | 577,128 | 3,332,258 | 563,357 | 3,313,043 |
| Other clay products | — | 1,004,138 | — | 1,075,528 |
| Clay and silica refractories | — | 7,672,164 | — | 9,766,680 |
| Pottery and whiteware | — | 22,710,634 | — | 22,759,628 |
| Total | | $52,459,500 | | $54,901,990 |

TABLE 14 - FLUORSPAR SHIPPED AND CONSUMED, 1960-1966[a]

| Year | Fluorspar shipments | | | Fluorspar[b] consumed in United States | Illinois shipments as percent of U.S. consumption |
|---|---|---|---|---|---|
| | United States | Illinois | Illinois as percent of U.S. | | |
| 1960 | 229,782 | 134,529 | 58.5 | 643,759 | 20.9 |
| 1961 | 197,354 | 116,908 | 59.2 | 687,940 | 17.0 |
| 1962 | 206,026 | 132,830 | 64.5 | 652,888 | 20.3 |
| 1963 | 199,948 | 132,060 | 66.1 | 736,350 | 17.9 |
| 1964 | 217,137 | 127,454 | 58.7 | 831,561 | 15.3 |
| 1965 | 240,932 | 159,140 | 66.1 | 930,127 | 17.1 |
| 1966 | 253,068 | 176,175 | 69.6 | 1,065,124 | 16.5 |

[a]Fluorspar figures, in tons, U.S. Bureau of Mines.
[b]Fluorspar consumed includes domestic and foreign material.

TABLE 15 - ILLINOIS ZINC AND LEAD PRODUCTION, 1960-1966[a]

| Year[b] | Zinc | | | Lead | | |
|---|---|---|---|---|---|---|
| | Tons | Value | Average per ton | Tons | Value | Average per ton |
| 1960 | 29,550 | $7,623,900 | $258.00 | 3,000 | $702,000 | $234.00 |
| 1961 | 26,795 | 6,162,850 | 230.00 | 3,430 | 706,580 | 206.00 |
| 1962 | 27,413 | 6,304,990 | 230.00 | 3,610 | 664,240 | 184.00 |
| 1963 | 20,337 | 4,677,510 | 230.00 | 2,901 | 626,616 | 216.00 |
| 1964 | 13,800 | 3,753,600 | 272.00 | 2,180 | 571,160 | 262.00 |
| 1965 | 18,314 | 5,347,688 | 292.00 | 3,005 | 937,560 | 312.00 |
| 1966 | 15,192 | 4,405,680 | 290.00 | 2,285 | 690,756 | 302.00 |

[a]Based on U.S. Bureau of Mines figures.
[b]Mine production of recoverable metal.

Table 16 of this report was designed as a quick and convenient reference to the counties in Illinois producing any one of 14 mineral products of this state. The table indicates the different mineral products produced by any county in the state, and the numbers show the position held by each county among all counties producing a selected mineral product.

TABLE 16 - SUMMARY OF MINERALS PRODUCED BY ILLINOIS COUNTIES, 1966

| Counties | Cement | Clay products | Coal | Crude oil | Fluorspar | Lead | Lime | Natural bonded molding sand | Common sand | Common gravel | Silica sand | Stone | Tripoli | Zinc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adams | — | — | 25 | 37 | — | — | 2 | — | 43 | 51 | — | 18 | — | — |
| Alexander | — | — | — | — | — | — | — | — | 28 | 56 | — | — | 1 | — |
| Bond | — | — | — | 27 | — | — | — | — | 24 | 39 | — | — | — | — |
| Boone | — | — | — | — | — | — | — | — | 55 | 37 | — | 37 | — | — |
| Brown | — | 25 | — | 39 | — | — | — | — | 51 | 54 | — | 56 | — | — |
| Bureau | — | — | — | — | — | — | — | — | 22 | 10 | — | — | — | — |
| Calhoun | — | — | — | — | — | — | — | — | — | — | — | 58 | — | — |
| Carroll | — | — | — | — | — | — | — | — | 56 | 52 | — | 31 | — | — |
| Cass | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Champaign | — | — | — | 40 | — | — | — | — | 12 | 21 | — | — | — | — |
| Christian | — | — | 9 | 18 | — | — | — | — | — | — | — | 48 | — | — |
| Clark | — | — | — | 22 | — | — | — | — | 40 | 24 | — | 24 | — | — |
| Clay | — | — | — | 8 | — | — | — | — | — | — | — | 50 | — | — |
| Clinton | — | — | — | 16 | — | — | — | — | — | — | — | 46 | — | — |
| Coles | — | — | — | 19 | — | — | — | — | 42 | 27 | — | 20 | — | — |
| Cook | — | 2 | — | — | — | — | 1 | — | 6 | 14 | — | 1 | — | — |
| Crawford | — | 3 | — | 7 | — | — | — | — | 41 | 20 | — | — | — | — |
| Cumberland | — | — | — | 23 | — | — | — | — | 27 | 38 | — | — | — | — |
| DeKalb | — | — | — | — | — | — | — | — | 20 | 17 | — | 28 | — | — |
| DeWitt | — | — | — | 24 | — | — | — | — | 54 | 41 | — | — | — | — |
| Douglas | — | — | 17 | 29 | — | — | — | — | — | — | — | — | — | — |
| DuPage | — | 14 | — | — | — | — | — | — | 14 | 15 | — | 9 | — | — |
| Edgar | — | — | — | 31 | — | — | — | — | — | — | — | — | — | — |
| Edwards | — | — | — | 15 | — | — | — | — | — | — | — | — | — | — |
| Effingham | — | — | — | 21 | — | — | — | — | 57 | — | — | — | — | — |
| Fayette | — | 24 | — | 1 | — | — | — | 2 | 58 | 55 | — | 44 | — | — |
| Ford | — | — | — | — | — | — | — | — | 30 | 26 | — | — | — | — |
| Franklin | — | — | 8 | 12 | — | — | — | — | — | — | — | — | — | — |
| Fulton | — | — | 7 | — | — | — | — | — | 17 | 16 | — | — | — | — |
| Gallatin | — | — | 21 | 17 | — | — | — | — | 15 | 42 | — | — | — | — |

TABLE 16 - Continued

| Counties | Cement | Clay products | Coal | Crude oil | Fluorspar | Lead | Lime | Natural bonded molding sand | Common sand | Common gravel | Silica sand | Stone | Tripoli | Zinc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Greene | — | 18 | 26 | — | — | — | — | — | — | — | — | 33 | — | — |
| Grundy | — | 8 | 20 | — | — | — | — | — | 3 | 4 | — | — | — | — |
| Hamilton | — | — | — | 6 | — | — | — | — | — | — | — | — | — | — |
| Hancock | — | — | — | 41 | — | — | — | — | — | — | — | 26 | — | — |
| Hardin | — | — | — | — | 1 | 1 | — | — | — | — | — | 19 | — | 1 |
| Henderson | — | — | — | — | — | — | — | — | 59 | — | — | 27 | — | — |
| Henry | — | — | — | — | — | — | — | 1 | 49 | 48 | — | 36 | — | — |
| Iroquois | — | — | — | — | — | — | — | — | — | 44 | — | — | — | — |
| Jackson | — | — | 18 | — | — | — | — | — | 32 | — | — | 43 | — | — |
| Jasper | — | — | — | 11 | — | — | — | — | 52 | 49 | — | — | — | — |
| Jefferson | — | — | 13 | 13 | — | — | — | — | — | — | — | 45 | — | — |
| Jersey | — | — | — | — | — | — | — | — | — | — | — | 51 | — | — |
| Jo Daviess | — | — | — | — | — | 2 | — | — | 33 | 60 | — | 21 | — | 2 |
| Johnson | — | — | — | — | — | — | — | — | — | — | — | 13 | — | — |
| Kane | — | 7 | — | — | — | — | — | — | 4 | 2 | — | 23 | — | — |
| Kankakee | — | 15 | — | — | — | — | — | — | 45 | 57 | — | 4 | — | — |
| Kendall | — | — | — | — | — | — | — | — | 47 | 23 | — | 40 | — | — |
| Knox | — | 5 | 11 | — | — | — | — | — | 61 | 47 | — | 34 | — | — |
| Lake | — | 17 | — | — | — | — | — | — | 8 | 8 | — | — | — | — |
| LaSalle | 1 | 1 | — | — | — | — | — | — | 13 | 7 | 1 | 53 | — | — |
| Lawrence | — | — | — | 2 | — | — | — | — | 39 | 25 | — | — | — | — |
| Lee | 2 | — | — | — | — | — | — | — | 19 | 28 | — | 14 | — | — |
| Livingston | — | 20 | — | — | — | — | — | — | 60 | 36 | — | 5 | — | — |
| Logan | — | — | 23 | — | — | — | — | — | 26 | 19 | — | 42 | — | — |
| McDonough | — | 4 | — | 32 | — | — | — | — | — | — | — | 32 | — | — |
| McHenry | — | 26 | — | — | — | — | — | — | 1 | 1 | — | 59 | — | — |
| McLean | — | — | — | — | — | — | — | — | 25 | 9 | — | — | — | — |
| Macon | — | — | — | 35 | — | — | — | — | 21 | 31 | — | — | — | — |
| Macoupin | — | — | 15 | 38 | — | — | — | — | — | — | — | — | — | — |
| Madison | — | 13 | — | 25 | — | — | — | — | 18 | — | — | 12 | — | — |
| Marion | — | — | — | 5 | — | — | — | — | — | — | — | 54 | — | — |
| Marshall | — | 19 | — | — | — | — | — | — | 44 | 12 | — | — | — | — |
| Mason | — | — | — | — | — | — | — | — | 50 | 53 | — | — | — | — |
| Massac | 3 | — | — | — | — | — | — | — | 31 | 58 | — | 52 | — | — |
| Menard | — | — | — | — | — | — | — | — | — | — | — | 25 | — | — |
| Mercer | — | 21 | 24 | — | — | — | — | — | — | — | — | 47 | — | — |

TABLE 16 - Continued

| Counties | Cement | Clay products | Coal | Crude oil | Fluorspar | Lead | Lime | Natural bonded molding sand | Common sand | Common gravel | Silica sand | Stone | Tripoli | Zinc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monroe | — | — | — | — | — | — | — | — | — | — | — | 29 | — | — |
| Montgomery | — | — | 5 | 42 | — | — | — | — | — | — | — | 15 | — | — |
| Morgan | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Moultrie | — | — | — | 36 | — | — | — | — | — | 45 | — | — | — | — |
| Ogle | — | — | — | — | — | — | — | — | 23 | 30 | 2 | 17 | — | — |
| Peoria | — | — | 10 | — | — | — | — | — | 9 | 5 | — | 10 | — | — |
| Perry | — | — | 1 | 34 | — | — | — | — | — | — | — | — | — | — |
| Piatt | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Pike | — | — | — | — | — | — | — | — | 53 | 29 | — | 22 | — | — |
| Pope | — | — | — | — | 2 | 3 | — | — | — | — | — | — | — | 3 |
| Pulaski | — | 23 | — | — | — | — | — | — | 48 | 59 | — | 39 | — | — |
| Putnam | — | — | — | — | — | — | — | — | — | 40 | — | — | — | — |
| Randolph | — | — | 4 | 28 | — | — | — | — | 38 | — | — | 7 | — | — |
| Richland | — | — | — | 10 | — | — | — | — | — | — | — | — | — | — |
| Rock Island | — | — | — | — | — | — | — | 3 | 7 | 35 | — | 6 | — | — |
| St. Clair | — | 16 | 3 | — | — | — | — | — | 16 | — | — | 2 | — | — |
| Saline | — | — | 6 | 14 | — | — | — | — | — | — | — | — | — | — |
| Sangamon | — | 12 | — | 26 | — | — | — | — | 11 | 18 | — | — | — | — |
| Schuyler | — | — | 16 | — | — | — | — | — | — | — | — | 57 | — | — |
| Scott | — | 22 | — | — | — | — | — | — | — | — | — | 49 | — | — |
| Shelby | — | — | — | 30 | — | — | — | — | 46 | 46 | — | 55 | — | — |
| Stark | — | — | 14 | — | — | — | — | — | — | — | — | — | — | — |
| Stephenson | — | — | — | — | — | — | — | — | 34 | 32 | — | 30 | — | — |
| Tazewell | — | 9 | — | — | — | — | — | — | 10 | 6 | — | — | — | — |
| Union | — | — | — | — | — | — | — | — | 63 | 50 | — | 8 | — | — |
| Vermilion | — | 10 | 12 | — | — | — | — | — | 29 | 22 | — | 11 | — | — |
| Wabash | — | — | — | 9 | — | — | — | — | 36 | 33 | — | — | — | — |
| Warren | — | 11 | — | — | — | — | — | — | — | — | — | 38 | — | — |
| Washington | — | — | 22 | 20 | — | — | — | — | — | — | — | 35 | — | — |
| Wayne | — | — | — | 4 | — | — | — | — | — | — | — | — | — | — |
| White | — | — | — | 3 | — | — | — | — | 35 | 34 | — | — | — | — |
| Whiteside | — | — | — | — | — | — | — | — | 37 | 43 | — | 41 | — | — |
| Will | — | 6 | 19 | — | — | — | — | — | 2 | 3 | — | 3 | — | — |
| Williamson | — | — | 2 | 33 | — | — | — | — | — | — | — | — | — | — |
| Winnebago | — | — | — | — | — | — | — | — | 5 | 11 | — | 16 | — | — |
| Woodford | — | — | — | — | — | — | — | — | 62 | 13 | — | — | — | — |

ILLINOIS STATE GEOLOGICAL SURVEY LIBRARY

Illinois State Geological Survey
23 p., 3 figs., 16 tables, 1968

Printed by Authority of State of Illinois, Ch. 127, IRS, Par. 58.25.

CIRCULAR 418

# ILLINOIS STATE GEOLOGICAL SURVEY

URBANA